

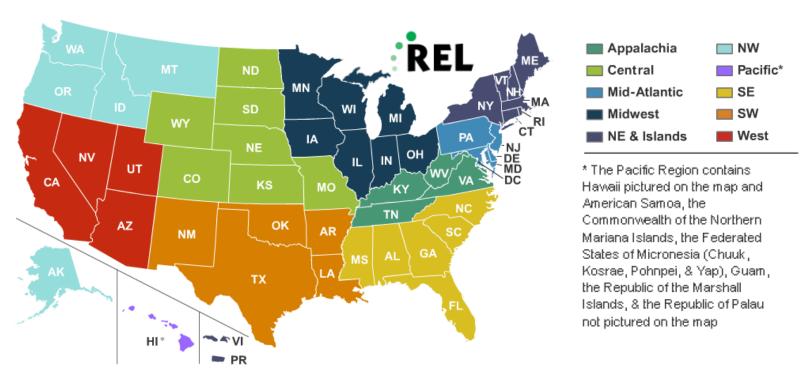
Making Connections: The State Role in Early Warning Systems

Dropout Prevention Research Alliance

March 24, 2015

REL Midwest

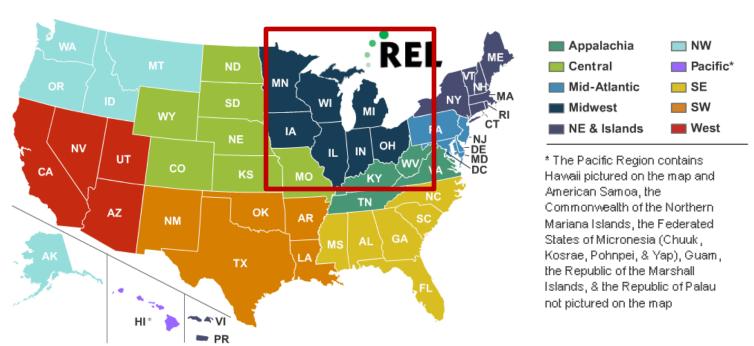
The Regional Educational Laboratories



American Institutes for Research (AIR), through its merger with Learning Point Associates, has operated the Midwest's regional educational laboratory for more than 25 years.

REL Midwest

The Regional Educational Laboratories



REL Midwest provides education research and technical support services to educators and policymakers in Illinois, Indiana, Iowa, Michigan, Minnesota, Ohio, and Wisconsin.

REL Midwest

Our charge is to **improve academic outcomes** for students by:

- Helping states, school districts, and schools systematically use data and research
- Conducting and supporting highquality research and evaluation
- Promoting evidence-based decision making



Research Alliances

- REL Midwest conducts its work primarily through Research Alliances
- Research alliances comprise practitioners, policymakers, and other education stakeholders
- Researchers and alliance members work together to develop and carry out a research agenda that addresses a shared problem of practice



Research Alliances

- College and Career Success Research Alliance
- Dropout Prevention Research Alliance
- Early Childhood Education Research Alliance
- Educator Effectiveness Research Alliance
- Rural Research Alliance
- School Turnaround Research Alliance
- Urban Research Alliance
- Virtual Education Research Alliance

Resources on our Website

www.relmidwest.org

- Links to resources and publications
- Research alliances and members
- > Information about upcoming events
- Access to archived events
- > Follow us on Twitter @RELMidwest

Webinar Features

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Type your message or question in the narrow rectangular box on the bottom of the Chat pod.

Click the dialogue bubble to the right of your message or hit your **return** key to post your message.

Webinar Features

Hearing From You: Differentiating the Chat Pods

Technical Assistance Chat pod – Post your questions regarding sound, webinar tool assistance, and other technical concerns. These issues will be addressed immediately.

Question (Q&A) Chat pod – Post your questions for the presenter

Comments and Insights pod – Share your stories and insights



Event Orientation & Speaker Introductions



Mindee O'Cummings, Ph.D.

Principal Researcher, REL Midwest



Anticipated Goals

- Increase awareness of EWS development and implementation across the U.S., and specifically in the REL Midwest region
- Provide relevant and practical guidance for states to effectively support the use of EWS in schools and districts
- Engage education stakeholders in a conversation about the challenges, successes, and importance of state involvement with EWS development and implementation



Agenda

Time	Activity	Presenter(s)
1:10–1:30 p.m.	The Current Landscape of Early Warning Systems	Susan Therriault, Ed.D. American Institutes for Research
1:30–1:45 p.m.	State Perspective: Wisconsin	Jared Knowles Wisconsin Department of Public Instruction
1:45–2:00 p.m.	State Perspective: Minnesota	John Gimpl Minnesota Department of Education (MDE)
2:00–2:10 p.m.	Practical Lessons from Implementation: A School Perspective	Timothy Conboy, Ed.D. Rosemount High School (Minnesota)
2:10–2:25 p.m.	Q&A with Panelists	Moderated by Mindee O'Cummings, Ph.D. REL Midwest
2:25–2:30 p.m.	Wrap-Up & Closing	Mindee O'Cummings, Ph.D. REL Midwest



The Current Landscape of Early Warning Systems

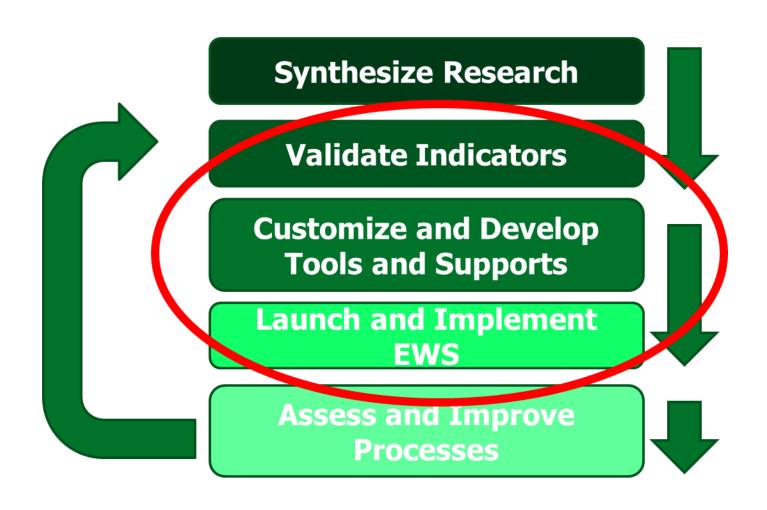


Susan Therriault, Ed.D.

Principal Researcher, REL Midwest



EWS Implementation Pathway





State EWS Implementation Challenges

- Local control
- State and LEA capacity to use data and support the use of data in schools
- Availability and allocation of resources (funding, time, and people)
- Dropout prevention is not a state or district priority



Benefits of Validating Indicators

- Based on available data that is applicable to the state context (e.g., state assessments or other data collected)
- Increases legitimacy of the indicators if validated in your state's schools
- > State-determined priority outcomes (e.g., reading by the end of third grade, high school graduation)



Challenges for Validating Indicators

- Validation is time and resource intensive (and ongoing)
- ➤ There are limitations in the data elements collected
- Timing of data availability is critical
- A system is needed to share early warning indicator data with districts and schools



Launch and Implementation

Technical assistance/support

- Many states provide links to state or nationally developed EWS tool and implementation guidance
- Support provided in the form of data analysis (validating indicators)
- > Local districts and schools can decide to participate



Launch and Implementation

Programmatic mandates

- Grants or programs require reporting or monitoring aligned with EWS indicators
- ➤ Texas: Ninth Grade Transition Grantees use the EWS High School Tool to monitor students



Launch and Implementation

Legislative mandates

Virginia: Accreditation linked to high school graduation rates



Implementation Strategies

Voluntary participation (e.g., Wisconsin, Minnesota, Massachusetts)

- > Tools and validated indicators
- > Implementation guidance
- Professional development



Implementation Strategies

Pilot EWS in schools and districts (e.g., Virginia, California)

- Coalition of the willing
- Active members and feedback
- Continuous support



Implementation Strategies

Integrate indicators between state, district, school data systems (e.g., Massachusetts and Louisiana)



State Implementation Incentives

- Improving graduation rates is a priority
- > Entry costs are low in terms of risk and resources
- Reporting is simplified by using EWS Tool
- Monitoring of school improvement is linked to the indicators at the school or district level



A State Perspective: Wisconsin

Jared Knowles

Research Analyst
Wisconsin Department of Public Instruction



Wisconsin

- Dropout Early Warning System (DEWS)
 - Provides on-time graduation predictions for all students in grades 6, 7, 8, and 9 statewide (225,000 students in approximately 1,000 schools)
 - Secure reports available to school and district staff online, updated twice annually in August and April
 - 2nd full year of implementation



DEWS in Action

Orientation video:

http://www.youtube.com/watch?v=4C2F8zhH V8w&hd=1

DEWS support page:

www.dpi.wi.gov/dews



Wisconsin – Why DEWS?

- ➤ DEWS was identified as a strategy to meet Wisconsin's goal of reducing graduation gaps
 - Goal is to reduce graduation gaps for race/ethnicity and FRL status by 50% by 2017
 - DEWS linked to data literacy professional development

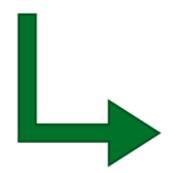


Wisconsin - DEWS Theory

STATE DATA

Assessments
Demographics

Attendance Disciplinary Events



LOCAL KNOWLEDGE

Teacher / program context

Parent input

Special circumstances

Intervention Strategies





Student Risk Identification

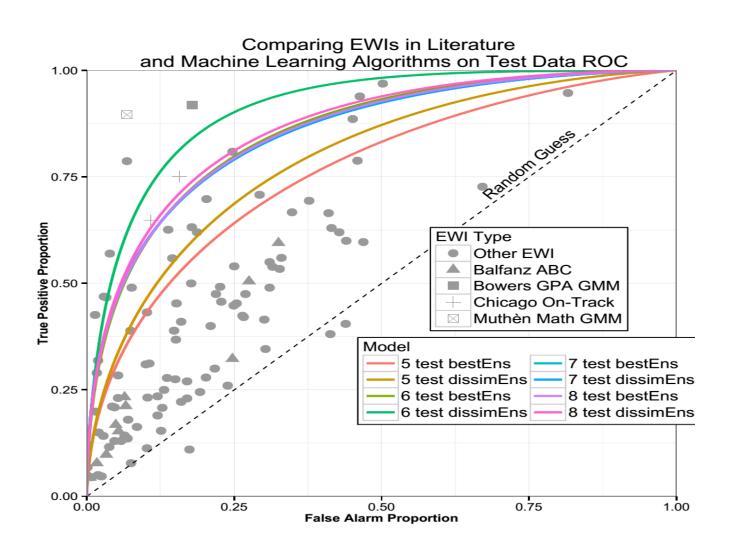


Wisconsin — What makes DEWS different?

- ➤ DEWS does not use a checklist system, but instead gives students risk scores from 0-100
- ➤ DEWS is early available at start of grades 6-9
- > DEWS includes a margin of error
- ➤ DEWS provides subscores focusing on malleable factors that influence student risk



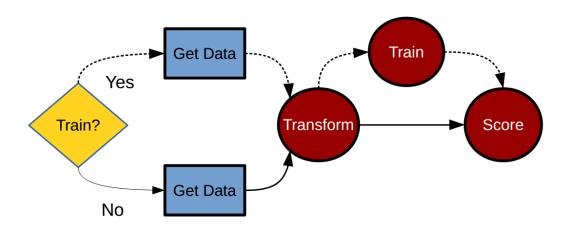
Wisconsin – DEWS Accuracy

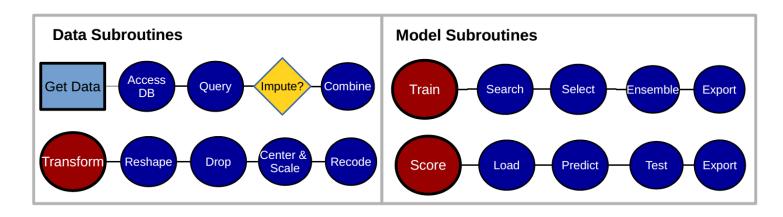




Wisconsin – DEWS IT Workflow

DEWS Workflow for Training and Scoring







Wisconsin - Rollout

- ➤ DEWS was developed during the 2012-13 school year
- ➤ Pilot group of 34 schools identified in early 2013
- ➤ Pilot materials delivered electronically in mid-April 2013; participation in follow-up survey too
 - Interpretative guide
 - Student reports for all current 7th graders
 - School report and school roster
- Pilot materials mimic dashboard, September 2013 rollout to statewide dashboard



Wisconsin — How to Use DEWS?

> Resources

- Training materials available on the Wisconsin
 Department of Public Instruction (DPI) website include
 DPI produced materials and links to other high quality resources
- Website: <u>www.dpi.wi.gov/dews</u>
- Goal is to provide resources that reduce burden on local implementers in using and explaining DEWS
- Transparency through technical documents describing DEWS, data used, and methodology



Professional development

- DPI employees present on DEWS to various statewide networks such as RSN, Title I, School Counselors, ets.
- State provides DEWS training alongside ongoing dashboard and data literacy training project known as WISEexplore http://wise.dpi.wi.gov/wisexplore
- Trainings are available to districts at their request and are provided by staff at regional service areas



DEWS Usage

Depth

Districts are deepening their engagement with WISEdash

> Breadth

 Almost all districts have visited DEWS reports at least once in each year, 2013 and 2014

> Growth

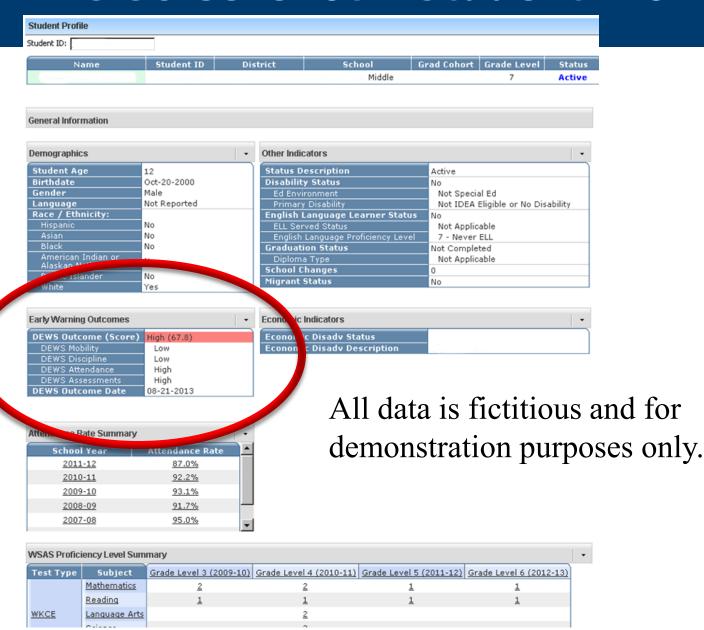
 DPI and regional service agencies have increased the usage of DEWS and WISEdash by districts over time

Metrics

 WISEdash and DEWS usage is looked at to make sure the tool provides value where it is needed, with local staff



DEWS Screenshot – Student Profile



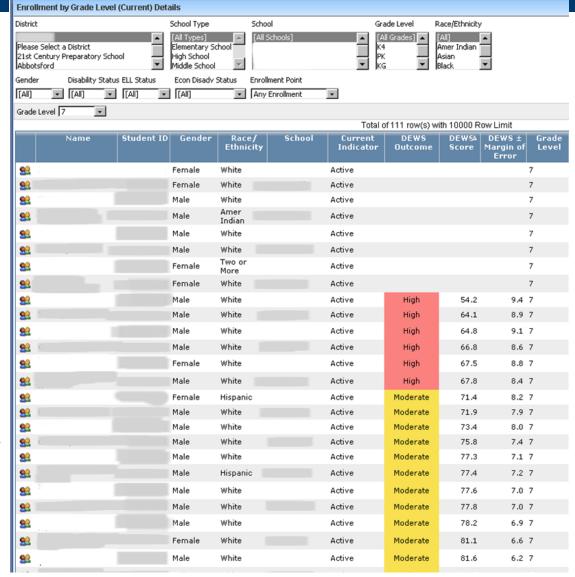


DEWS Screenshot – Student Detail

Early Warning Outcomes	•	Early Warning Outcomes	•
DEWS Outcome (Score)	Moderate (76.1)	DEWS Outcome (Score)	High (46.3)
DEWS Mobility	Moderate	DEWS Mobility	Low
DEWS Discipline	Low	DEWS Discipline	Moderate
DEWS Attendance	Low	DEWS Attendance	High
DEWS Assessments	Low	DEWS Assessments	High
DEWS Outcome Date	08-21-2013	DEWS Outcome Date	08-21-2013
Early Warning Outcomes	-	Early Warning Outcomes	-
DEWS Outcome (Score)	▼ High (69.4)		
	High (69.4) Low	DEWS Outcome (Score) DEWS Mobility	Moderate (82.5)
		DEWS Outcome (Score)	Moderate (82.5)
DEWS Outcome (Score) DEWS Mobility	Low Low Low	DEWS Outcome (Score) DEWS Mobility	Moderate (82.5) Low
DEWS Outcome (Score) DEWS Mobility DEWS Discipline	Low Low	DEWS Outcome (Score) DEWS Mobility DEWS Discipline	Moderate (82.5) Low Low

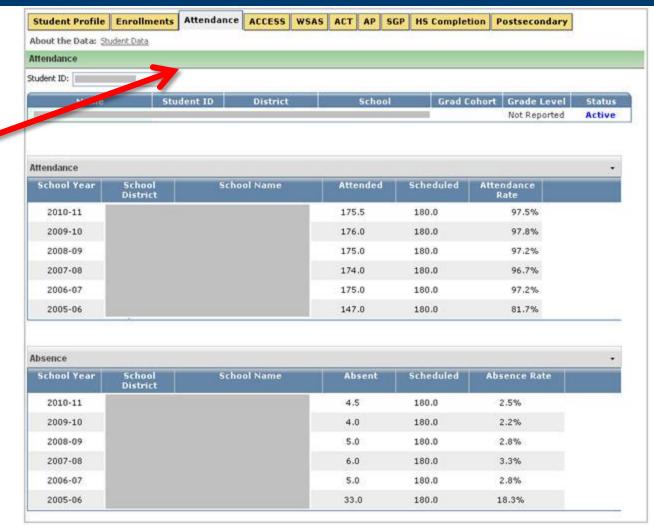


DEWS Screenshot – Student Roster



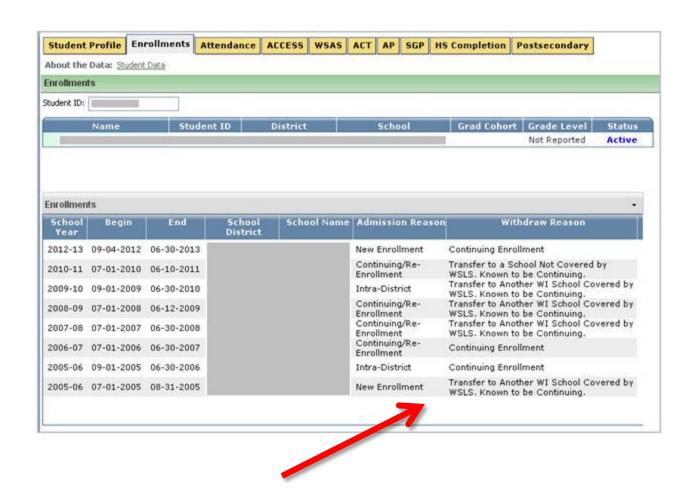


DEWS Screenshot – Attendance





DEWS Screenshot – Enrollment





Wisconsin

- Lessons learned?
 - Be transparent about your predictive accuracy validated measures are more likely to be used
 - Build a diverse internal workgroup of different teams with a need for EWS (Title I, Wellness, IDEA, etc.)
 - Find school, district, or regional leaders champion user bases and potential trainers who are excited about the idea
 - Communicate
 - Do a pilot and get feedback
 - Use feedback



Wisconsin - Resources

- Learn more about Wisconsin DEWS
 - Pre-print of research paper on DEWS methodology, to be published in the Journal of Education Data Mining, <u>available</u> now at http://goo.gl/XEj8U2
 - DEWS homepage has many EWS resources and DEWS specific guides (<u>www.dpi.wi.gov/dews</u>)



A State Perspective: Minnesota



John Gimpl

State Implementation Specialist Minnesota Department of Education



Minnesota Early Indicator and Response System (MEIRS)

A tool for use by interested schools – voluntary.

Two Components:

- 1. An early warning data system to screen for students in grades 6 and grade 9 who are at risk of not completing high school in four years.
- 2. A corresponding process to a) review data for students at risk of not completing high school in four years, b) select, c) provide and d) monitor supports to help get students back on track to graduation.





Objective of MEIRS

Raise rates of graduation AND engage children in school giving them the knowledge and skills necessary to successfully meet the challenges life brings after completing high school.





Categories of data that influence graduation rates

Student Non-Academic Data Fidelity of Implementation Data

Program Data

Perception Data

GRADUATION

Student Academic Achievement Data





Definitions of MEIRS Variables

- State level research confirmed that these variables distinguish between students who drop out and those who complete high school in four years:
 - Attendance
 - Mathematics Accountability Test performance
 - Reading Accountability Test performance
 - Suspension and Expulsion
 - Multiple Enrollments





Definitions of MEIRS Variables

- Groups identified as being at greater risk typically requiring or receiving additional support services:
 - Limited English Proficient
 - Special Education
 - Migrant
 - Homeless
 - Free and Reduced Price Lunch





Professional Development

- Schools must designate one staff person to receive an initial MEIRS training.
- MDE designed and delivers MEIRS trainings in collaboration with the Regional Centers of Excellence.
- Upon completion of MEIRS training, schools are granted access to the system by district superintendents.





Overview: MEIRS Secure Report

- Secure report with aggregated data and list of students with risk factors
- Requires a team problem solving process to analyze data, determine root cause and match potential supports and interventions at universal, targeted or intensive level
- State report provides a snapshot in time (based on October 1 Child Count Data) – goal is to promote tracking of risk factors in "real time"





Overview: MEIRS Secure Report

Minnesota Early Indicator and Response System (MEIRS)

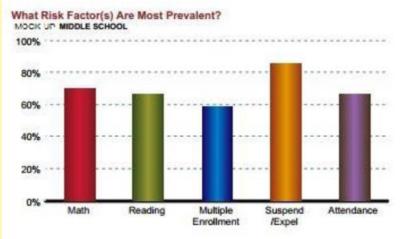
What Percentage of Students Are Predicted At Risk Of Not Graduating From High School In Four Years?

100%		At Risk	Identified	Percent
80%	STATE MOCK-UP PUBLIC SCHOOL DISTRICT MOCK-UP MIDDLE SCHOOL	20,369 38 38	61,583 137 137	33.1% 27.7% 27.7%
60%	Note: The MOCK-UP MIDDLE SCHOOL 6th Grade Cohe in 2021 included a total of 139 students.	ort Anticipatio	ng High School	Graduation
40%	Analysis was completed for 137 38 were identified at risk of not graduating on time.			
20%				
0% State District School				





Overview: MEIRS Secure Report



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80%								-		-	-		7								ŀ	-			-			
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At Risk	Identified	Percent
21	30	70.0%
22	33	66.7%
10	17	58.8%
6	7	85.7%
2	3	66.7%
	21 22 10 6	21 30 22 33 10 17 6 7

Note:

Students who have one or more of these risk factors are at increased risk of not graduating in four years.

- Math: The student received a "D" achievement level (does not meet standards) on at least one mathematics state accountability test in 3rd-5th oracles
- Reading: The student received a "D" achievement level (does not meet standards) on at least one reading state accountability test in 3rd-5th grades
- Multiple Enrollment: The student attended more than 1 school in the same fiscal year in 3rd-5th grades, excluding dual enrollment and summer school.
- Suspension or Expulsion: The student was suspended (in school or out), expelled, or excluded at least once in 3rd-5th grades
- Attendance: The student had less than an average of 85% attendance in 3rd-5th grades.

	At Risk	Identified	Percent
English Learner	19	25	76.0%
Free Reduced Priced	f Lunch 38	66	57.6%
Special Education St	atus 7	21	33.3%
Migrant	1	1	100.0%
Homeless	0	0	0.0%

Note:

Research suggests that students in these groups, on average, are at increased risk of not completing high school in four years.

The homeless indicator is not used in analysis for 6th grade.

Minnesota Department of





Practical Lessons from Implementation: Rosemount-Apple Valley-Eagan Public Schools

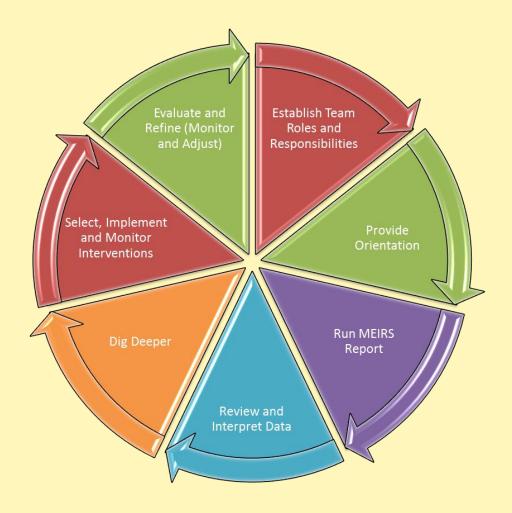
Timothy Conboy, Ed.D.

Assistant Principal Rosemount High School, Minnesota



Seven-Step MEIRS Implementation Cycle









Q&A with Panelists



Moderated by Mindee O'Cummings, Ph.D.

Principal Researcher, REL Midwest



Wrap-Up & Closing Remarks



Mindee O'Cummings, Ph.D.

Principal Researcher, REL Midwest

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Feedback Survey







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